



UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
Address: COMMISSIONER FOR PATENTS
P.O. Box 1450
Alexandria, Virginia 22313-1450
www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/607,600	06/27/2003	Ki-Kwon Jeong	9898-288	7615
20575	7590	10/25/2005	EXAMINER	
MARGER JOHNSON & MCCOLLOM, P.C. 210 SW MORRISON STREET, SUITE 400 PORTLAND, OR 97204			NGUYEN, TAI V	
			ART UNIT	PAPER NUMBER
			3729	

DATE MAILED: 10/25/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

SP

Office Action Summary	Application No. 10/607,600	Applicant(s) JEONG ET AL.	
	Examiner Tai Van Nguyen	Art Unit 3729	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 26 August 2005.
- 2a) ☒ This action is **FINAL**. 2b) ☐ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-10 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-6 is/are rejected.
- 7) ☒ Claim(s) 7-10 is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. _____.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- * See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|--|---|
| 1) <input type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date _____ | 6) <input type="checkbox"/> Other: _____ |

DETAILED ACTION

Response to Amendment

1. The applicants' amendment filed 8/26/2005 has been fully considered and made of record.

Claim Rejections - 35 USC § 102

2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(a) the invention was known or used by others in this country, or patented or described in a printed publication in this or a foreign country, before the invention thereof by the applicant for a patent.

3. Claims 1-6 are rejected under 35 U.S.C. 102(a) as being anticipated by Applicants Admitted Prior (AAPA).

As applied to claim 1, The AAPA (Prior Fig. 1-Fig. 4) teaches an in-line system used in a semiconductor package assembling process, the system comprising: a wafer loading unit for loading into the system a wafer having a back side which has not been subjected to grinding (12, Fig. 1); a wafer grinder for grinding the back side of a wafer (18) by the wafer loading unit (14); and a dicing tape attaching unit which attaches a dicing tape comprising one of a pre-cut dicing tape (see Application page 3, lines 10-13) and a general dicing tape to the back side of the wafer after grinding by the wafer grinder (Fig. 1).

As applied to claim 2, The AAPA teaches wherein a lamination tape is attached to a top side of the wafer (12, Fig. 1), the wafer and attached lamination tape being

Art Unit: 3729

loaded into the wafer loading unit so as to prevent contamination in the wafer grinder (see Application page 2, lines 12-13).

As applied to claim 3, The AAPA teaches wherein the wafer grinder includes a UV light radiating portion which irradiates UV light onto a top side of the wafer, so as to effectively remove the lamination tape after the grinding is completed (see Application page 2, lines 21-25).

As applied to claim 4, The AAPA teaches wherein the wafer after grinding by the wafer grinder has a thickness of 20-200 gm (see Application page 2, lines 3-4).

As applied to claim 5, The AAPA teaches which further includes a ring frame to which the wafer is attached, and an unloading unit which transfers the ring frame and wafer to a location outside the system (see Fig. 3 and Fig. 4).

As applied to claim 6, The AAPA teaches wherein the dicing tape attaching unit includes a tape loader which supplies one of the pre-cut dicing tape and the general dicing tape to the system (see Application page 3, lines 1-2).

Allowable Subject Matter

3. Claims 7-10 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Response to Arguments

4. Applicant's arguments filed 8/26/2005 have been fully considered but they are not persuasive.

The applicant(s) argue that the AAPA does not teach the structure of "a dicing tape attaching unit structure of "a dicing tape attaching unit ... water grinder" (lines 7-8 of claim 1).

The examiner most respectfully disagrees. The AAPA surely teaches the structure of "a dicing tape attaching unit" (as shown in Fig. 1, element 18) that is capable of performing the function of "to attach a pre-cut dicing tape and a general dicing tape to the back side of the wafer after grinding by the wafer grinder". The examiner's position is that the structure of the AAPA's "dicing tape attaching unit" does not distinguish over the claimed "dicing tape attaching unit". The structure recited by the claims must be distinguishable from the prior art in terms of structure rather than function. In re Schreiber, 128 F.3d 1473, 1477-78, 44 USPQ2d 1429, 1431-32 (Fed. Cir. 1997).

The manner in which the device (dicing tape attaching unit) operates (i.e. constructed and configured ... grinder lines 6-8 of claim 1) does not differentiate over the structure of the prior art. Ex parte Masham, 2 USPQ2d 1647 (Bd. Pat. App. & Inter. 1987).

It appears that further structural limitations are needed in order to avoid the AAPA.

Conclusion

5. **THIS ACTION IS MADE FINAL.** Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

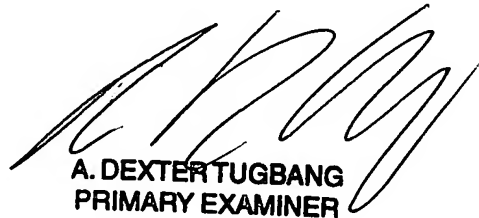
A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

6. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Tai Van Nguyen whose telephone number is 571-272-4567. The examiner can normally be reached on M-F (7:30 A.M - 4:30 P.M).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Peter Vo can be reached on 571-272-4690. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

TN.
October 13, 2005



A. DEXTER TUGBANG
PRIMARY EXAMINER